

# Shell PANOLIN for mining

## Balancing performance and sustainability



Shell  
**PANOLIN**



Why



### Keeping the world moving

Lubricants play a vital role in keeping our equipment operating efficiently, today and tomorrow.



### Increased demand

As the world's needs for mobility, construction and industrial production increase, so too will the demand for lubricants.



### Reduced environmental impact

There is a need to balance this increased demand with the environmental impact of lubricants.



Key challenges

### Mining faces tough challenges



Balancing output and environmental impact



Prioritising water and soil pollution prevention



Ensuring 24/7 equipment reliability, even in harsh conditions



While considering cost savings and long-term value, reducing risks in sensitive environments



Technology

### Shell PANOLIN biodegradable lubricants are designed to provide equipment protection and offer a choice for customers eager to take tangible steps towards sustainability.

The Shell PANOLIN range of high-performance lubricants helps to run equipment without compromise.



More performance, less resources



More regulations, less risk



More productivity, less impact

Shell has developed a wide range of high-performance biodegradable lubricants in collaboration with industry partners, OEMs and customers.



Performance and protection

### Shell PANOLIN, our range of biodegradable lubricants: trusted in mining for decades.

- **Biodegradable:**  
A broad choice of readily biodegradable, low-ecotoxicity lubricants and greases, including environmentally acceptable lubricants (EALs) certified by EU Ecolabel.<sup>1,2</sup>
- **Outstanding equipment protection:**  
Biodegradable technology designed to provide excellent equipment protection in harsh conditions.
- **Extended oil life:**  
Shell PANOLIN range helps to run equipment without compromise, especially our S4 and above.<sup>3,4,5</sup>



# Shell PANOLIN for mining

## Application guide

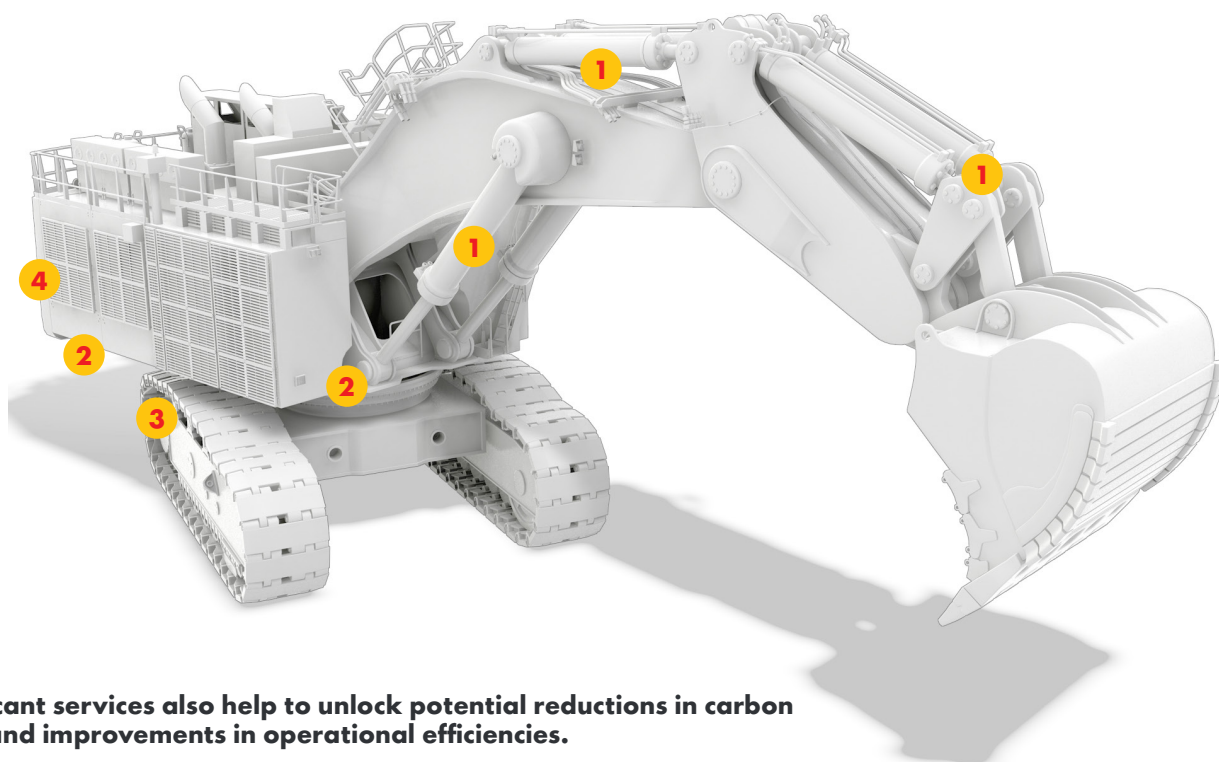
	Component	Shell recommendation
1	Hydraulic systems	Shell PANOLIN S4 HLP Synth (or EAL) 46, 68, 100 Shell PANOLIN S2 Hydraulic DU EAL 46, 68
2	Gears	Shell PANOLIN S4 Gear (or EAL) 150*
	Final drive and axles	Shell PANOLIN S4 Gear RS 80W90
3	Standard bearings	Shell PANOLIN S5 Grease EAL V120P 2
	Pin and bush	Shell PANOLIN S5 Grease EAL V320 2
4	Heavy duty diesel engine	Shell PANOLIN Biomot LX 10W-40

### Which products should I use?

Reducing the environmental impact of critical operations does not mean that you need to compromise on productivity or protection.

Shell has a broad portfolio of products designed for a wide range of operating conditions and applications; these include lubricants especially suited for environmentally sensitive areas and operations in or near water.

Product recommendations are typical examples only. Always check the manufacturer's manual for the required products and specifications.



**Shell lubricant services also help to unlock potential reductions in carbon footprint and improvements in operational efficiencies.**

### Services

#### Shell LubeAnalyst

Oil and equipment monitoring service

#### Shell LubeCoach

Lubrication training

#### Shell LubeAdvisor

Expert advice from the Shell technical team

#### Shell LubeMatch

Find the right oil for your vehicle or equipment

Forhandler:

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